

FLYLONG

Hydrogen Propulsion for Green Aviation

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FLYLONG Konsortium
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Kurzdarstellung der Konsortialpartner



AVL-List GmbH, Graz
Global Technology Provider, LE
Main contribution:
Fuel Cell Systems



Infineon Technologies Austria AG,
Villach, Semiconductor/Halbleiter, LE
Main contribution:
Provide information of electrical/
electronical components and systems



Meder & Partner KG, Kufstein Architects,
Aircraft Development, SME
Main contribution:
Airborn Demonstrator & Design Studie

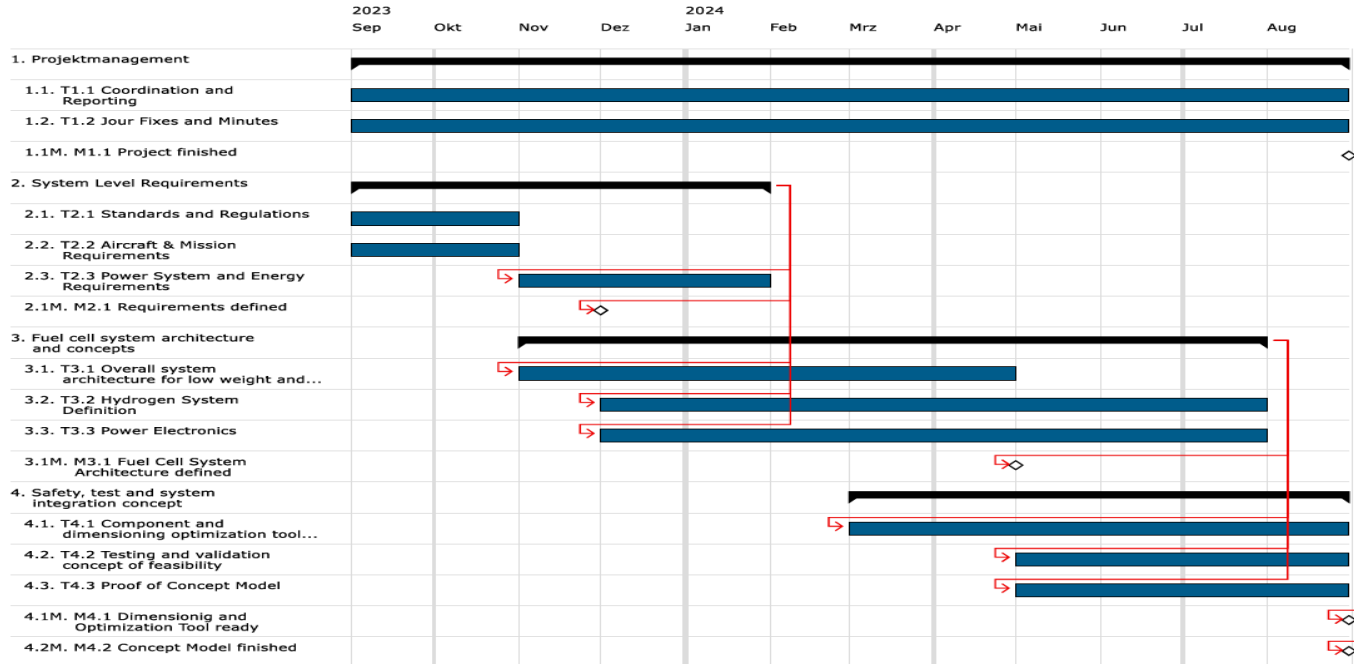
Ziel des Projekts

- **Goal 1: Definition of system level requirements**
 - Generalised aircraft mission requirements for framework and concept test
- **Goal 2: Feasibility of Fuel Cell System Architecture**
 - Fuel Cell system
 - Dimensioning of H₂ fuel tank
 - Power requirements
 - Power converter & inverter feasibility
 - All-electric power management
 - System supervision functions and safety mechanisms
- **Goal 3: Safety, test and system integration, realization feasibility**
 - Safety and certification requirements
 - Verification and test concept & validation plan acc. use case



Arbeitsplan/Zeitplan/Umsetzung

GANTT-Diagramm



Angestrebte Verwertung

- Main exploitation goal: Set basis and use the learnings in a follow-up research project in Take-off
- AVL: Increase aviation competencies in regards of aviation requirements, FCS layout adaptations to fulfill avionics requirements and safety and certification aspects
- DBA: Creating the technical and legal basis for the development and construction of a 1:1 prototype in co-operation with an aircraft manufacturer.
- IFAT: Increase aviation competencies & increase share in (aviation) market as supplier of semiconductor components

Kontakte

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